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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,204	03/26/2004	Michael Cheiky	968-20-022 DIV I	8652
7590 09/15/2005		EXAMINER		
Marvin E. Jaco	obs	·	TIBBITS, PIA	FLORENCE
Suite 215 2151 Alessandro Drive			ART UNIT	PAPER NUMBER
Ventura, CA 93001			2838	
			DATE MAILED: 09/15/2005	

DATE MAILED: 07/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/810,204	CHEIKY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Pia F. Tibbits	2838			
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 26 M	arch 2004.				
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) 22-25 is/are pending in the application	1.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>22-25</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)⊠ The specification is objected to by the Examiner	r.				
10)⊠ The drawing(s) filed on 26 March 2004 is/are: a		b by the Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents	s have been received in Application	on No			
Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage			
application from the International Bureau					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/26/04(2 pgs). 		atent Application (PTO-152)			

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DETAILED ACTION

Drawings

- 1. The drawings are objected to because all the elements recited in the claims of the instant application are not shown in one drawing. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the auxiliary devices must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the

filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the examiner does not accept the changes, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

- 3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 4. The disclosure is objected to because of the following informalities: the specification fails to make reference to the parent application, and MPEP clearly states "any nonprovisional application claiming the benefit of one or more prior-filed copending nonprovisional applications or international applications designating the United States of America must contain or be amended to contain a reference to each such prior-filed application, identifying it by application number (consisting of the series code and serial number) or international application number and international filing date and indicating the relationship of the applications. Cross references to other related applications may be made when appropriate (see § 1.14)". See 37 CFR 1.78.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- Claims 22 and 23 are rejected under 35 U.S.C. 102(b) as being anticipated by **Knapp** [5408173]. 6. Knapp discloses in the figure a battery charging system, comprising: a current source Vcc; a battery 16; a voltage and current regulator 12, which regulates voltage applied to said battery 16 and

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current supplied to said battery 16, and an operational amplifier U2B, which amplifies cutoff voltage/nominal output voltage and provides an output for use with auxiliary devices/battery 16 [see abstract; column 1, lines 48-55; column 3, lines 20-27].

As to claim 23, Knapp discloses that a switching regulator or other equivalent may be substituted for the adjustable voltage regulator 12 [see column 4, lines 53-55]. With regard to the limitation of having a switch: it is an inherent function of the switching regulator to activate a switch, and MPEP 2100 states that the disclosure of a limitation may be expressed, implicit or **inherent**.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Knapp**, as described above, in view of **Kocin** [6865690].

Knapp does not disclose the switch is timer controlled and said timer controlled switch is a microcontroller.

Kocin discloses a microcontroller controlled electronic switch 23. Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify Knapp's apparatus and include a microcontroller controlled electronic switch 23, as disclosed by Kocin, in order to improve the response speed of the switch.

As to the switch being timer controlled, it is inherent for a microcontroller to include a timer, and MPEP 2100 states that the disclosure of a limitation may be expressed, implicit or **inherent.**

Conclusion

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9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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The prior art cited in PTO-892 and not mentioned above disclose related apparatus: **Tiwari** [6218819]

discloses a voltage regulation device provided for receiving a voltage at an input node and supplying a

regulated voltage to electronic circuitry at an output node. The device includes a switching circuit that is

coupled between the input node and the output node, and a control circuit that is coupled to the

switching circuit. When the voltage level at the output node is below a threshold voltage, the control

circuit controls the switching circuit so as to substantially short-circuit the input node and the output

node; when the voltage level at the output node is not below the threshold voltage, the control circuit

controls the switching circuit so as to substantially isolate the input node from the output node. WO-

009512916 discloses a switching regulator SR and an amplifier RV comparing the voltage drop at the current

measuring resistor RM with a reference voltage Ur. Ise [5621306] discloses a switching regulator 10 and an op amp

12 driving a liquid crystal.

Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Examiner Pia Tibbits whose telephone number is 571-272-2086. If unavailable, contact

the Supervisory Patent Examiner Mike Sherry whose telephone number is 571-272-2084. The Technology

Center Fax number is 571-273-8300.

11. Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

PFT

September 8, 2005

Pia Tibbits

Primary Patent Examiner